The 50 MHz DX Bulletin

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The 50 MHz DX Bulletin was founded by Harry Schools KA3B. It is dedicated to the understanding and utilization of long distance propagation in the 6-meter Amateur band. The current editor and publisher, Victor Frank, K6FV, intends to publish one current issue per month along with one technical issue for each of the months missed during 1993. Subscription rates are $20 U.S. third class mail, $25 U.S./Canada/Mexico airmail, $25 by surface or $30 airmail elsewhere for 12 issues. Circulation matters and DX reports should be sent to 12450 Skyline Blvd., Woodside, CA 94062-4541 USA. If you can reach the Internet, my address there is frank@marie.sri.com; if you cannot, and have packet, you might try K6FV@N0ARY.#NOCAL.CA.USA.NA. The Bulletin may be freely quoted, provided that credit is given.

Six Meters Opens to Antarctica!

November 19, 1993: (via K6QXY) Today, at 1000Z, VK3OT heard VK0AQ/B at Casey Base, Antarctica on 50.200 FSK. After being alerted, VK0AQ worked VK3OT on 50.120 SSB 55 at 1209, followed by VK3LX at 1215 and VK5NC at 1234. VK0AQ was operated by Mark, VK5AVQ, using a FT680 plus 50W PA and 3 element fixed yagi. The station is located at 66° 30' S, 110° 00' E. VK3OT indicated that the beam heading for the VK0 was 202°, and the distance 3758 km. This is believed to be the first 50 MHz QSO to the South Polar icecap. Congratulations to all involved!

ZLs Haven't Lost 50-51 MHz (Yet!)

Contrary to information received just before last issue's deadline, New Zealand's radio amateurs haven't lost the use of 50-51 MHz. Many of them didn't have it to begin with, only those far enough away from Ch 1 TV transmitters.

I received the following manuscript, from Cliff Betson, ZL1MQ, who writes the VHF column of ***Break In***.

The VHF-UHF Scene

To: K6FV Editor, The 50 MHz DX Bulletin
To: W3EP Editor, The World Above 50 MHz

Greetings from ZL.

As there is no Jan Issue of "Break In" in January 1994 and VHF news are combined in the January-February issue, so to bring you both up to date on happenings in this part of the world here are details of 50 MHz happenings.

Firstly, it was reported in the 50 MHz DX Bulletin for October 1993 that ZL had lost the use of 50-51 MHz around September 1993. To date, that has not happened. A short story of a long story is that two different governments in the last nine years have adopted a policy of selling off most of the government assetts, also a second policy that the user pays and pays. Now attention is directed around the 25 MHz+ to 70 MHz [region] which includes Ch 1-2-3 TV. The reason is to lease these frequencies on a 20 year term renewable, and to extend Ni-Cam on the channel 1 stations which to date has not happened, although they operate on Ch2-3 and Band 2 TV stations. This would spread the TV stations to about 51.2 MHz. The government wants Footnotes 556 and 560 of the ITU Radio Regulations repealed, which if I remember correctly, allow other services in the spectrum.

The 11m amateur band, 26.975 to 27.283 MHz, 5W model control is to go, and the CB frequencies 26.425 up are to go, and the CB stations moved up to 400 MHz in line with VK CB stations. Although the New Zealand government works in with the Australian government, all Ch 0 TV stations in VK2 have been phased out and one in VK4 along with one in VK7 have been shut down and changed to UHF channels. Australia is also moving Ch 5A, whose stereo interferes with the low end of 144 MHz to different frequencies. That is the abbreviated story to date, and I will keep you informed.

As ZLs are still operating on 50 MHz, here is the news to date.

50 MHz After a winter where Es openings were about non-existent, at the beginning of November they were back again for on November 3 thanks to TEP and Es to VK4 land, ZL2KT, ZL2AGI, and ZL2WBA each had one JA contact and ZL2KT to VK4KU; November 5 ZL3-VK2; November 7 Zl1-2 to VK4KU, VK4PU, VK4TN, VK4EJR, VK4TMH, VK4IAM; November 9 JA1RJU to ZL1MQ, ZL1AXB, ZL2KT; November 12 ZL-VK4; November 13 ZL3NE, ZL2WBA and VK2 along with ZL1AKW (51) worked 5 JA stations, ZL4TBN to a VK3.

On November 20, the first internal Es appeared, ZL4LV to ZL1MQ, ZL3NE, later at 2345 FK8DH with a S8/9 signal to ZL1MQ, ZL1AXB, ZL3NE, ZL1TJB, ZL2KT, ZL2AGI and on 51 MHz ZL1AKW, ZL1TMF, ZL1TZA. FK8DH also [worked] VK at the same due to the spread of Es. ZL2AGI came up with VK2, VK4, and VK5BC. November 22 ZL1AXB [worked] 4 VK4 and 1 VK3.

I talked with ZL3AAU, the former editor of ***Break In***. He told me that Ni-Com is a particular brand of FM stereo TV sound which would create a subcarrier higher than 51 MHz on the Ch1 TV audio. They were talking of changing the regular band limits from 51.35 to 53 MHz.

Subscription Renewals

It's getting close to the time to cut our mailing lists of those whose subscriptions expired last year, and those on exchange status who haven't submitted anything recently. Look at your mailing label. If it says EXPIRED or NS or EXCH, and we haven't heard from you by the end of the year, you may not be receiving anything from us in 1994.

As for the rest of you, we'll probably advance the cutoffs two months for each bulletin until we get caught up. In 1994, I plan to publish bulletins at least 8 pages in size once a month.

50 MHz Listing Box

Comments on my proposal for listing the number of grid fields worked by the 50 MHz gang ranged from negative to a number of entries already. The negative comment was that "the pages of the DX Bulletin should not be wasted for 50 MHz Grid Square because the World Above 50 MHz in QST already publishes grid squares, DXCC, WAC, WAS, and other listings."

On the other hand, some of you have sent me totals that must be grid **squares**, not grid **fields**. The grid field is the first two letters of the grid square. My grid square is CM87, my grid field is CM. I am not aware of anyone who has worked more than 100 grid **fields** on 50 MHz.

Some suggest that 500 km is more fair for the maximum distance one can move and still combine totals.

Sept,Oct 1993 DX Reports

The following reports of 50 MHz DX heard and worked are primarily courtesy of G4UPS, SM7AED, and 9H5EE. Other reports this month have come from VE1MQ, ZL1MQ, WB8YFE, K6QXY, and W7HAH--perhaps more that I have forgotten. In the tabular listings, the year (1993) is understood, the day of the month precedes the time, and both are in UTC. A +to the right of the time indicates the observation was one of several in a time period and the observation time is probably later than stated. The call at the right is that of the observing station. Symbols V = Video Carrier, F = FM audio, B = beacon, C = CW, S = SSB.

News of Africa

Ascension Island "One of my 50 MHz neighbors here in Gloucester, G3UOF, is now on Ascension Island signing ZD8M. Mike is active on all bands including 6m and will be there until March '94. QSL is via G3UOF callbook address. Good luck, I'm sure he will be in demand if the band opens, though I think this unlikely with the current state of the cycle. We can always hope . . . 73 - Darrell G0HVQ via SM7AED's 6-meter Newsheet.

Botswana:

10141825	A22BW	55	S	G4UPS
10301440	A22BW	(-1447)		9H5EE
10201905	A22BW	(-1930)		9H5EE

Canary Islands:

10111745	EH8ACW		G3MY
10111830	EH8ACW		ON4KST

Ceuta & Melilla Islands:

10261246	EH9IB			SM7AED
10141330+	EH9IB	59	S	G4UPS

Mauritania: G4UPS writes that Eric Jauch, formerly F1JKK and now F5JKK, is in Mauritania on a two-year tour. Eric was active on 6m in recent years as TL8MB and as TA5ZA, and as 5T5/F5JKK will be a most popular DX station. His locator is IL30. On October 8 he worked into 9H/F/EA, and heard the GB3RMK and GB3LER beacons but had no UK QSOs until October 10 at 1700. QSL via F6FNU. The Islamic Republic of Mauritania is on the N.W. coast of Africa to the north of Senegal. CQ Zone 35 and ITU Zone 46. From October 12 onwards, Eric has used the callsign 5T5JC.

10101635	5T5/F5JKK	(-1830)		9H5EE
10101700	5T5/F5JKK	(-1900) IL30		I,G,PA
10101727	5T5/F5JKK		S	ON4KST
10101745	5T5/F5JKK	44	S	G4UPS
10102220	5T5/F5JKK	(-2230)		9H5EE
10121800+	5T5JC	(-1845)		9H5EE
10131720	5T5JC	(-1810)		9H5EE
10161714	5T5JC	(-1718)		9H5EE
10191700	5T5JC	(-1730)		9H5EE

Malawi:

10201945	7Q7		PA
10151728	7Q7JL		ON
10171820	7Q7LA	(-2010)	9H5EE
10151800	7Q7LA & 7Q7RM	(-1930)	9H5EE
10121720	7Q7RM	339 C	G4UPS
10231755	7Q7RM	(-1830)	9H5EE
10191830	7Q7RM	(-1835)	9H5EE
10121800+	7Q7RM	(-1845)	9H5EE
10131920	7Q7RM	(-2000)	9H5EE
10201930	7Q7RM	(-2005)	9H5EE
10222000	7Q7RM	(-2015)	9H5EE
10141755	7Q7RM	(579@1845) 55 S	G4UPS
10241750	7Q7RM & 7Q7JL	(-2000)	9H5EE
10161815	7Q7RM & 7Q7JL	(-1830)	9H5EE
10211755	7Q7RM & 7Q7JL	(-1950)	9H5EE
10171820	7Q7RM & 7Q7JL	(-2010)	9H5EE

Namibia:

10211755+	V51KC	(-1950)	9H5EE
10201930+	V51KC	(-2005)	9H5EE

South Africa:

10141640	ZS6PJS	(-1650)		9H5EE
10141845	ZS6WB	55	S	G4UPS

Zimbabwe:

10141805	Z23JO	559	C	G4UPS
10201838	Z23JO	(-1841)		9H5EE

News of Asia

Cyprus:

10141607	5B4 /B		B	ZS6PJS
10141607+	5B4 /B		B	ZS6WB

Japan:

10150326	JA7	599	B	VK4APG
10150326	JE2DWZ	59	S	VK4APG
10150344	JH0HQP	59	S	VK4APG
10150316	JH1WHS	57	S	VK4APG
10150338	JH7MSB	59	S	VK4APG
10150341	JR0FEK	59	S	VK4APG
10150338	JR0YEE	599	B	VK4APG

Korea (South):

09201242	HL9UH			P29CW
09291257	HL9UH	S5	S	P29CW

Philippines:

10041230	DX1HB/B		B	P29CW
10110600	DX1HB/B	(-0800)	B	JA
10091100	DX1HB/B	(-1145)	B	JA
10251130+	DX1HB/B	(-1300)	B	JA

Taiwan:

09201139	BV2DP		P29CW
09201142	BV2DQ		P29CW
10100900	BV2AP & BV2DP	(-0920)	JA
10030820	BV2DP	(-0900)	JA5-6

News of Europe

Austria:

10171113	OE4WHG	57	S	G4UPS

Balearic Islands:

10141330	EH6FB	59	S	G4UPS
10141845+	EH6FB	59	S	G4UPS
10201232	EH6FB	(-1238) 55	S	G4UPS
10231745	EH6VQ	(-1800)		9H5EE

Belarus: Regarding QSLs for UC2AA/EV8A, 9H5EE passes along the following from PA3BFM via PI8UTR. "If you want QSL from UC2AA/EV8A, I can help. I have all 50 MHz logs and a limited number of UC2AA and EV8A cards. Ben has asked me to be his QSL manager for 6 meters. Those who still need Belarus confirmed on 6 meters can send their SASE to:

Frank E. van Dijk, PA3BFM

Middellaan 24
3721 PH BILTHOVEN
NETHERLANDS.

Belgium:

```
10221700 ON1AEQ          (-1740)    9H5EE
10141650+ON1BBK          (-1745)    9H5EE
10171000+ON1LGS & ON7YD             9H5EE
10151640+ON1SQ & ON1IL   (-1715)    9H5EE
10161744 ON4FZ                      9H5EE
1014     ON4SE                    C Z23JO
10221945 ON7YD           (-1950)    9H5EE
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Bulgaria:

```
10301200+LX1SI           (-1250)    9H5EE
```

Crete:

```
10141716+SV9ANJ              55  S G4UPS
10141713 SV9SIX/B           589  B G4UPS
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Croatia:

```
10171052+9A1CRJ              59  S G4UPS
10101745 9A3FT               59  S G4UPS
10171135+9A3FT               59  S G4UPS
10091200 9A3FT     (-1230)   59  S G4UPS
10101103 9A3FT (&1132) JN38  59  S G4UPS
10151138+9A3FT (&1229) JN83  59  S G4UPS
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Czech Republic:

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10240900+OK1MAC                     9H5EE
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Denmark:

```
10251530 OZ          (-1730) AU     SM7AED
10171000+OZ1LIT & OZ3ZW             9H5EE
10301200+OZ2LD           (-1250)    9H5EE
10100950+OZ3AEV & OZ1ASL (-1150)    9H5EE
10161050 OZ4D               599  C  G4UPS
10171000+OZ4D & OZ3SDL   (-1110)    9H5EE
10100950+OZ4K & OZ4VV    (-1150)    9H5EE
10290840 OZ6VHF/B           559  B  G4UPS
10290847 OZ7IGY/B           579  B  G4UPS
10171052+OZ7IGY/B (-1107)   599  B  G4UPS
10171000+OZ9NI & OZ1IEP             9H5EE
10100950+OZ9NI & OZ7JV   (-1150)    9H5EE
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England:

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10281045+G4IGO                      9H5EE
10141650+G4IGO & G7GLT   (-1745)    9H5EE
1014     G4IGO & G3NSM            C Z23JO
10221700+G4IGO & G1IOV   (-1740)    9H5EE
10168800 G4UPS                      SM7AED
10261035+G7EXO & G1SSL   (-1140)    9H5EE
10290840+GB3BUX/B           599  B  G4UPS
10191315 GB3IPJ/B                B  SM7AED
10271610 GB3LER/B             AU B  SM7AED
10251530 GB3LER/B    (-1730) AU B  SM7AED
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Finland:

```
10251530 OH1AHQ      (-1730) AU     SM7AED
10092150 OH1SIX/B         (AU) B    SM6CMU
10251530 OH1SIX/B    (-1730) AU B   SM7AED
10271627 OH3MF               AU     SM7AED
10101708 OH9SIX/B               B   OZ3ZW 599
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France:

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10170819 F STN WKG Gs     JO31      SM7AED
10191250 F1BBU                      SM7AED
10191232 F1BHB                      SM7AED
10251720 F1BJD & F1CH & F5BYM       9H5EE
10181820 F1CH & F5QT & F6ECS        9H5EE
10101112 F1DPX               59  S  G4UPS
10171000+F1LUS & F1BHB              9H5EE
10151349 F1PZF                      SM7AED
10191317 F1SAV                      SM7AED
10191215 F1YJ                       SM7AED
10161744+F5BUU & F5EAN   (-1814)    9H5EE
10281045+F5BYM & F1BBK   (-1130)    9H5EE
10151640+F5ID            (-1715)    9H5EE
10141650+F5PKX           (-1745)    9H5EE
10240900+F5PKX & F1NNE              9H5EE
10170810+F5QT                59  S  G4UPS
10131800 F5QT            (-1805)    9H5EE
10171318 F6AUS           (-1321)    9H5EE
10301135 F6ECS               59  S  G4UPS
10261035 F6FEF                      9H5EE
10231745 F6FEF           (-1800)    9H5EE
10021820+F6FEF           (-1917)    9H5EE
10191249 F6GNP/M                    SM7AED
10221700+F8VQ            (-1740)    9H5EE
10240900+F8ZW                       9H5EE
10171000+F9TV & F1APH & F1BBK       9H5EE
10170530 FRENCHCO 50.025 & 50.100   SM7AED
10170810 FRENCHCO 50.025 50.100 F   G4UPS
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Germany:

```
10221720 DF7RG       (-1730)  59  S G4UPS
10251530 DF9CY         (-1730) AU   SM7AED
10281045 DJ2RE                      9H5EE
10171000+DJ6TK                      9H5EE
10251530 DJ6TK         (-1730) AU   SM7AED
10141650+DJ8ZJ           (-1745)    9H5EE
10251530 DJ9YE         (-1730) AU   SM7AED
10100950+DK2NH           (-1150)    9H5EE
10141650+DK8KW & DK7ZB   (-1745)    9H5EE
10100950+DL1OY           (-1150)    9H5EE
10240900+DL4DRD & DL8SET            9H5EE
10301004 DL4RBH              579 C  G4UPS
10100950+DL8HCZ & DJ8ZJ  (-1150)    9H5EE
```

Greece:

```
10141716 SV1OH               59  S G4UPS
1014     SV1DH                   S Z23JO
```

Isle of Mann:

```
1014     GD3AHV                  C Z23JO
```

Italy:

```
10151130+I0CUT               59  S G4UPS
10301120 I2WSG               59  S G4UPS
10171040 I4CIL         (-1045)   SM7AED
10240900+I4SJZ & I2MMH              9H5EE
10191105 I7CSB                      SM7AED
10100920+I7CSB           (-1035)    OZ & SM6
10100920+I8TUS & I8TWK   (-1035)    OZ & SM6
10171012 I8TWK                      SM7AED
10221710+IC8CQF      JN70cn 579 C   G4UPS
10171135 IK0 stns            59  S  G4UPS
10170956 IK0FTA                     SM7AED
10091150 IK0FTA              59  S  G4UPS
10301112 IK0FTA              59  S  G4UPS
10151130+IK0FTA (&1437)JN61  59  S  G4UPS
10171025 IK0OKY                     SM7AED
10091156 IK0OKY              59  S  G4UPS
10151138 IK0OKY              59  S  G4UPS
10100920+IK0OKY          (-1035)    OZ & SM6
10301035 IK0OKY   (&1130)    59  S  G4UPS
10171135+IK0OKY  (-1220)     59  S  G4UPS
10151130 IK0RWX              59  S  G4UPS
10141723 IK0RWX       JN61gq 59  S  G4UPS
10021820+IK1EGC          (-1917)    9H5EE
10240900+IK2GSO & IK2IQD (-1130)    9H5EE
10141650+IK2IQD          (-1745)    9H5EE
10171040 IK3HHJ          (-1045)    SM7AED
10171054 IK4BHO                     SM7AED
10240900+IK4IDP & IK4ADE            9H5EE
10171040 IK5RLP          (-1045)    SM7AED
10171047 IK6GZM                     SM7AED
10100920+IK7UXY          (-1035)    OZ & SM6
10221720 IK8MKK              57  S  G4UPS
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Malta:

```
10141815+9H1AZ               559 C  G4UPS
10151440 9H1AZ               559 C  G4UPS
10221714 9H1SIX/B            559 B  G4UPS
10141815 9H1SIX/B            579 B  G4UPS
10171014 9H5EE                      SM7AED
1020     9H5EE & 9H5ET poor sig  S  Z23JO
10221710 9H5EE               58  S  G4UPS
10281050 9H5EE     (-1056)   57  S  G4UPS
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Netherlands:

```
10301200+PA0HIP          (-1250)   9H5EE
10151640+PA0LSB         (-1715)    9H5EE
10201930+PA0LSB  (back of beam)    9H5EE
10100950+PA0OSS & PA3BFM (-1150)   9H5EE
10100950+PA0PEV          (-1150)   9H5EE
10251530 PA0RDY      (-1730) AU    SM7AED
1014     PA2VST                C  Z23JO
10301200 PA3FHK & PA3BFM           9H5EE
10100950+PA3FYM & PA3FHK (-1150)   9H5EE
10100950+PE1CTM & PE1PIU (-1150)   9H5EE
10100950+PE1DVW          (-1150)   9H5EE
10100950+PE1NIK & PE1IWT (-1150)   9H5EE
10301200+PE1OCP & PE1EWR (-1250)   9H5EE
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Norway:

```
10251530 LA1KHA      (-1730) AU    SM7AED
10101708 LA7SIX/B                B OZ3ZW 599
```

Poland:

```
10111835 SP3UCA                    9H5EE
10171000 SP3UCA                    9H5EE
10301450 SP3UCA          (-1500)   9H5EE
10121800+SP3UCA          (-1845)   9H5EE
```

Portugal:

```
10101140 CQ7CBI              59  S G4UPS
10141355 CQ7CBI              59  S G4UPS
10151035 CQ7CBI              59  S G4UPS
10151119 CQ7CBI &1550 IM59hi 59  S G4UPS
10151405 CT0SMB              559 B G4UPS
10081340 CT0SMB    (-1407)   559 B G4UPS
10141355+CT0WW/B             559 B G4UPS
10081340 CT0WW/B   (-1407)   599 B G4UPS
10151035+CT0WW/B   (&1345)   599 B G4UPS
10151550 CT0WW/B   (-1710)       B G4UPS
10151450 CT1CIU    (-1535)   59  S G4UPS
10101140+CT1SMB/B            559 B G4UPS
10151803 CT1WW     (-1815)   57  S G4UPS
```

Romania:

```
10301004+YO2IS               579 C G4UPS
```

San Marino: According to Ugo, I4SJZ, the San Marino Club station T70A has been granted an extension to its 6m permit which should, initially have terminated in September 1993. The extension for both CW and SSB operations now expires on December 31, 1993. Tnx G4UPS.

Sardinia:

```
10151235 IS0AGY                    SM7AED
10171040 IS0AGY          (-1045)   SM7AED
10141930 IS0AGY  (-1945)    59  S G4UPS
```

Scotland:

```
10251538 GM3XOQ               AU   SM7AED
```

Serbia:

```
10171043 4N1SIX/B            569 B G4UPS
10101011+4N1SIX/B            599 B G4UPS
10151138+4N1SIX/B            599 B G4UPS
10171005 YT1AU                     SM7AED
10171052+YT1AU               569 C G4UPS
10301057 YT1AU               57  S G4UPS
10141650+YT1IQ           (-1745)   9H5EE
10171043+YU1ABA              559 C G4UPS
10171052 YU1ABA        KN04  599 C G4UPS
10190849 YU1AD                     SM7AED
10151138+YU1AD               559 C G4UPS
10171043+YU1AD               57  S G4UPS
10101029 YU1AU         KN04  59  S G4UPS
10170958 YU1EU                     SM7AED
10171109 YU1EU         KN04  599 C G4UPS
10141650+YU1EU & YU1QC   (-1745)   9H5EE
10101011 YU1EU (&1027)KN04   59  S G4UPS
10171000 YU1QC                     SM7AED
10171052+YU1QC               59  S G4UPS
10101028 YU1QC       KN04fu  59  S G4UPS
10170945 YU1s                      SM7AED
10171050 YU1SIX/B            579 C G4UPS
10101030 YU1SIX/B            599 B G4UPS
10151129 YU1SIX/B            599 B G4UPS
10121040 YU1SIX/B  (-1050)   579 B G4UPS
10091150+YU1SIX/B 50.0873 KN03knB G4UPS
10170957 YU7FU                     SM7AED
10141650+YU7FU           (-1745)   9H5EE
```

Sicily:

```
10141825+IT9IPQ              59  S G4UPS
10171040 IT9SGC        (-1045)     SM7AED
```

Slovakia:

```
10301004+OM3ID               59  S G4UPS
```

Slovenia:

```
10301004+S55ZRS/B            569 B G4UPS
10141815+S55ZRS/B            579 B G4UPS
10151129+S55ZRS/B            579 B G4UPS
10201610 S55ZRS/B  (-1622)   559 B G4UPS
10171130 S55ZRS/B (-1210)    599 B G4UPS
10301025 S57AC               59  S G4UPS
10141815 S57CC (CLG ZS6WB)   579 C G4UPS
10240900+S57MC                     9H5EE
10301004+S57MC               57  S G4UPS
1014     S58UN                   C Z23JO
10171129 S59UN               59  S G4UPS
10240900 S59UN & S57ZW             9H5EE
```

Spain:

```
10151130+EA3VHF/B            579 B G4UPS
10151750+EA3VHF/B (-1815)    579 B G4UPS
10191226 EH1DDU                    SM7AED
10151210 EH1DVY/P            59  S G4UPS
10151750+EH1DVY/P            59  S G4UPS
10151325 EH1EH                     SM7AED
10251720+EH1EH           (-1805)   9H5EE
10151640+EH1EH           (-1715)   9H5EE
10151435 EH1QJ                     SM7AED
10240900+EH3BTZ                    9H5EE
10301135+EH3BTZ              59  S G4UPS
10021820+EH3BTZ & EH3AQJ (-1917)   9H5EE
10181820+EH3ECE          (-1855)   9H5EE
10151248 EH3IH                     SM7AED
10151750 EH3IH     (-1815)   599 C G4UPS
10171347 EH3LL                     SM7AED
10101911 EH3MD                     OZ
10141845+EH3MD               59  S G4UPS
10091150 EH3MD & EH5BZS            OZ3SDL
10111853 EH7AH                     ON4KST
10151402 EH7AH                     SM7AED
10151415 EH7AH           IM67 59  S G4UPS
10151750+EH7AJ               55  S G4UPS
10141225 EH7AJ               599 C G4UPS
10151122 EH7AJ               599 C G4UPS
10301140 EH7AJ     (-1200)   599 C G4UPS
10151420 EH7ERS              59  S G4UPS
10151332 EH7ESB                    SM7AED
```

Sweden:

```
10251612 SM3JGG               AU   SM7AED
10251530 SM5,6,7     (-1730) AU   SM7AED
10100950+SM6KJX          (-1150)   9H5EE
10170804 SM7AED              559 C G4UPS
10190800 SM7AED              559 C G4UPS
10200801 SM7AED              559 C G4UPS
10180747 SM7AED              579 C G4UPS
10210755 SM7AED              579 C G4UPS
10220749 SM7AED              579 C G4UPS
10310854 SM7AED              579 C G4UPS
10171000+SM7AED & SM7FJE           9H5EE
10091230 TV-SCANDANAVIAN     AU  V G4UPS
10271600 49.750               AU   SM7AED
```

News of North America

Alaska: The stations below were worked by VE1MQ & VE1SLM (FN65), VE1PZ (FN85), and VE3KKL during a

widespread auroral opening after the September VHF QSO party.

```
09130404 NL7OW     BP41      AUE    VE1MQ
09130406 KL7Y      BP51      AUE    VE1MQ
09130414 KL7Y                AUE    W0UC/9
```

Canada: VE1MQ writes that any New Brunswick radio amateur can change their call to VE9 permanently as of December 1, 1993. He is hoping to get VE9AA or VE9MS. Nova Scotia, however, will remain VE1. Mike, VE1MQ reports also working a few W4s on 2m during the aurora of Sept 13. He also relays a report from VE3KKL of hearing "Over-the-horizon" radars above and below the 6m band.

```
09120005+W7HAH                          VE7SKA AU
09120005+          DO21 & 31            VE7SKA AU
0913      VE2TWO/B FO13    50.088 B VE1MQ AU
0913      VE2PEP                       VE1MQ AU
0913               DO21                VE7SKA AU
09130153  DM78, 79 (-0400)              VE7SKA ES
09130344 VE6BCC    DO33                VE1MQ AU
09130415+VE1,Q.VE1PZ                    W0UC/9 AU
```

Greenland: Tom Cook, WA2BPE, writes "Received QSL for OX3LX for June 12 QSO about three weeks ago. It came from OZ1DJJ direct. OX3LX was running 20W to a dipole!! Bo said he'll be back to Greenland next summer though the location changes. He also said OX3CS & OX3NVK are QRV all year round.

```
0913      OX3VHF/B          50.045 B VE1MQ
```

Mexico:

```
10150100 XE2LQB      DL98              KD6GDL
10250157 XE2LQB      DL98              WB8YFE
```

United States:

```
10150100+W6SKC/B     DM41 50.075 B KD6GDL 59
10150100+W7US/B      DM42 50.068 B KD6GDL 59
10230207 W7US/B   459     DM43   B K6FV
10230207+W6SKC/B  459     DM41   B K6FV
10242322 WB2QLP           EL96     WB8YFE
10250026 KB5OAI           EM22     WB8YFE
10250101 N5CTE            EM12     WB8YFE
10252350+W3XO/5 & W5OZI   -EL09     WB8YFE
```

News of Oceania

Australia:

```
10100810 VK4FP & VK4ABW  (-0830)   JA
10030430+VK4FP & VK4ABW & VK4FNQ   JA2-6
10091100 VK4TL           (-1145)   JA
10251130+VK6JQ           (-1300)   JA
10251130+VK8VF/B         (-1300) B JA
```

French Oceania:

```
09260700 FO3BM              BH52    NI6E/KH6
09280700-FO3BM                      NI6E/KH6
10210555 KH6 CH2         (-0715) V FO5DR
10050655+KH6 CH2         (-0755) V FO5DR
10030705+KH6 CH2         (-0805) V FO5DR
10090705 KH6 CH2         (-0830) V FO5DR
10220650 KH6 CH2         (-0850) V FO5DR
10200715 KH6 CH2         (-0915) V FO5DR
10100545+KH6 CH2,CH3     (-0745) V FO5DR
10220710 KH6 CH3         (-0850) V FO5DR
10200740 KH6 CH3,CH4     (-0915) V FO5DR
10220730 KH6 CH4         (-0850) V FO5DR
10020615+KH6CH2,CH3,CH4  (-0815) V FO5DR
10040550+KH6CH2,CH3,CH4  (-0850) V FO5DR
10220730 KH6HI           (-0850) B FO5DR
10050655+KH6HME          (-0755) B FO5DR
10210555 KH6HME          (-0755) B FO5DR
10030705+KH6HME          (-0805) B FO5DR
10220650 KH6HME          (-0850) B FO5DR
10200715 KH6HME          (-0915) B FO5DR
10100545+KH6HME & KH6HI  (-0745) B FO5DR
10020615+KH6HME & KH6HI  (-0815) B FO5DR
10090630+KH6HME & KH6HI  (-0830) B FO5DR
10040550+KH6HME & KH6HI  (-0850) B FO5DR
```

Marshall Islands:

```
10260320 V73IO                      JA
10260340 V77H                       JA
10270330 V77H          (-0430)      JA
10290505 V77H          (-0535)      JA
```

Nauru Island: JH2BNL, JA2NQG, and JI2UAY operated 6m from Nauru Island between Sept 8 and Sept 13, working one station on the 8th, and five on the 10th.

```
09080539 C21/KC6DX                C JR2BEF
09100853 C21/KC6DX     (-0905) S JA1,7,0
```

Papua/New Guinea: Pete, P29CW, passes along the following: "Mark, P29KMT, in Port Moresby has just bought an Icom IC-729 HF+6 rig, so P29 now has another 6 meter op! This is always good news, eh? The other active P29 stations that I know of are also all in Port Moresby, except for your truly, up here in the mountains. They are Paul, P29PL, Rick P29KFS, Gordon R29ZGW, and I think Naru P29WW may also be on 6. Yoshi P29JA has gone back to JA now."

RE openings below: 9/15, No amateur signals (other than beacons) copied, no replies to CQ calls. Good movie on TV maybe? 9/20, This was the most fun I've had in quite a while in one night on 6! 10/4 Sad to say, no DU operators QRV now on 6 that I know of. N7ET/DU7's rig is down for repairs. Louis KG6UH/DU1 is now HL9UH. Nice opening, though. This was the only opening during the entire month (of October) that I heard, but I ws not in real good shape myself, due to having all four wisdom teeth removed in one day, on the 18th! I found CW particularly attractive for a couple of weeks.

```
09151145 49.750      (-1250) S6  V P29CW
09151145 JA2IGY/B    (-1254) S1  B P29CW
09151145 JA6YBR/B    (-1245)     B P29CW
09161104+JA1,2,3,4,5                P29CW
09181137 JA6GG                      P29CW
09191030 JA2IGY/B                   B P29CW
09201042+JA2,3,4,7,9                P29CW
09201139 BV2DP                      P29CW
09201142 BV2DQ                      P29CW
09201214 JR6GV                      P29CW
09201242 HL9UH                      P29CW
09261030 49.750                     V P29CW
09291130 49.750                     V P29CW
09291130 JA2IGY/B                   B P29CW
09291257 HL9UH                 S5   S P29CW
10041130 49.750                S9   V P29CW
10041130+48.250 (Sarawak)      S9   V P29CW
10041230 DX1HB/B                    B P29CW
```

News of South America

Brazil:

```
10112050 PY5CC           (-2059) C ON4KST 539
10212030 PY5CC           (-2115)   9H5EE
10122045 PY5CC           (-2130)   9H5EE
10102200 PY5CC           (-2210)   9H5EE
```

Beacon News

Harry Schools has written indicating that he will be unable to continue the collection of beacon station information that he has been gathering annually. I have written W3EP/1 and SMIRK to see if either of them are keeping up with the changes. I consider keeping the lists published in the Callbook and ARRL repeater directory current and accurate to be very important, and if SMIRK is not keeping a list that I'd better start sending out questionnaires.

Australia: Eric Jamieson, VK5LP, in his monthly column **VHF/UHF, An Expanding World** in the November 1993 edition of the ***Australian Amateur Radio magazine*** reveals the details of an Australian 6m repeater. The callsign of the repeater is VK3RMR, and it operates on 53.600/52.600 MHz with a nominal output of 25 Watts powered by solar panels. The repeater is located on Mount Lookout in the Gippsland area.

Canada: VE1MQ writes that his beacon has a new call sign, VE1BTT (his original call). It is on 50.073 and sends "DE VE1BTT/B FN65 5W ES QUAD LOOP ....."

Greece: The SV1SIX beacon was non-operational from around mid-September, but Costas, SV1DH, informed G4UPS that it would be back on the air before the end of October.

Greenland: Received a short note from OX3LX/OZ1DJJ dated November 4, forwarded by Harry, KA3B, indicated that the OX3VHF beacon is now QRV again 24 hours. The data for the beacon prior to its shutdown was QRG 50.0456, 20 watts to a ground plane antenna at 20 m ASL. Reports to: Bo Christensen OX3LX/OZ1DJJ, Biens Alle 2, 2300 KBH S, Denmark.

Malawi: 7Q7RM indicates that permission will be forthcoming quite soon for permission to activate the 7Q7SIX beacon. There have been difficulties in obtaining the permit, but the beacon should be activated soon on 50.003 MHz. Tnx G4UPS.

Namibia: The V51VHF beacon was taken off the air from the end of August for servicing, but according to V51KC it was hoped that it would be operational again sometime in November. Tnx G4UPS.

Papua/New Guinea: Pete, P29CW, writes that the P29BPL beacon is alive and well on 50.019, though he usually can't hear it from his QTH which is a couple hundred km away and on the other side of a 14,000+ foot range of mountains from Port Moresby. He heard it once, Q5, for 5 minutes in the middle of a night over two years ago.

Solomon Is: Pete, P29CW, also passes along the following: "I recently had a visit with Freddie, H44FB, who tells me that the H44 beacon is not only QRT, it's physically **gone** from H44—I guess someone took it 'home' with them and never brought it back. The good news is that Freddie is looking to buy a new rig soon, and is considering getting an HF+6 rig this time. I'll let you know what ends up happening when I next hear from him. He says there are no ops QRV from H44 on 6 right now. Freddie has never been on 6, but he could get interested! Let's hope so."

Serbia: YU1SIX is the callsign of a new 24-hr 6m beacon in KN03kn. Its frequency is 50.0873 MHz, and uses F1A emission, and 15 Watts to a dipole antenna. The beacon sends DE YU1SIX SOC KN03KN (followed by six seconds of carrier only - then keying cycle starts again). G4UPS reports first hearing it on October 9.

Zimbabwe: Z23JO writes (on Nov 19) that Z21SIX (in KH52mk) is being operated as attended beacon on 50.052 with 3W and a 4 el yagi or vertical half-wave dipole.

Steve, VK3OT, passes along the following regional beacon list and requests he be informed at VK3NSS about any incorrect information.

Frequency	Callsign	Grid Square	Equipment
50.005	XE2HWB	EL44	5W to Omni
50.008	DX1HB/B	PK04	20W to J-pole
50.009	JA2IGY	PM84	10W to G-Plane
50.017	JA6YBR	PM51	50W to Dipole
50.019	P29BPL	QI30	12W to G-Plane 200m.
50.0215	FR6SIX	LG78	2W Halo at 3000m.
50.0265	JA7ZMA	QM07	50W to Clover Leaf
50.032	JR0YEE	PM97	2W to Sq-Loop
50.037	V73AX	RJ38	25W to Dipole
50.043	ZL3MHF	RE66	20W Yagi NE+NW
50.045	JR6YAG	PL36	10W to G-Plane
50.0535	VK3SIX	QF02	50W to 9 el Yagi N
50.057	VK8VF	PH57	20W to G-Plane
50.057	VK7RNW	Lonah	Proposed.
50.058	VK4RGG	Nerang	6W FSK.
50.059	JH0ZPI	PM96	Unknown
50.061	KH6HME/B	BK29	20W to Dipole
50.064	KH6HI	BL01	10W to Turnstile
50.066	VK6RPR	OF78	10W H/Omni
50.069	K6FV	CM87	100W to Yagi W
50.071	VK4SIX	Mt Isa	Keyer?
50.0745	VS6SIX	OL72	10W to G-Plane
50.0775	VK4BRG	QG48	3W to V/Dipole
50.085	3D2FJ	RH82	20W to 2 el Yagi
50.087	VK4RTL	QH30	proposed
50.200	VK0AQ	Casey	3W to Yagi/N
50.480	JH8ZND	QN02	10W to G-Plane
50.490	JG1ZGW	PM95	10W to Dipole
52.320	VK6RTT	OG89	25W to J-pole 60m.
52.326	VK2RHV	QF57	Vertical Dipole
52.345	VK4ABP	QG26	10W to Vertical
52.410	VK1RCC	ACT	Proposed
52.420	VK2RSY	QF56	40W Omni
52.425	VK2RGB	QF59	5W Omni
52.450	VK5VF	PF95	10W Turnstile
52.510	ZL2MHF	RE78	Unknown status

EME News

Shep, W7HAH, writes: "On 6 meter EME I worked I5MXX and K6MYC on November 7. I am using a single yagi 11 el M-squared and 1.5kW. I5MXX is my second 6 meter EME contact with Europe.

VK3OT has a 1 kW permit for 50 MHz good for 4 months and is looking for EME skeds. VK3OT worked W6JKV November 7 at 1539 and K6QXY at 1625.

Equipment News

From Akira Saito, JH1MCX, we learn that the famous Japanese radio company, JRC, was scheduled to market its JST-245 transceiver, which includes the 50 MHz band, this fall in Japan. He says, "It is too late, but I am very anxious to try it, because JRC's receiver is very good, quiet and strong for cross modulation. But nobody has touched it yet so far."

9H5EE passes along these email messages from PA3BFM and PA0ERA.

Hello DXers September 29 1950Z

I have just acquired a Kenwood TS690S to replace my old Yaesu FT690R2. Immediately I discovered that the TS690S has very poor modulation characteristics on 50 MHz. The SSB sounds very muffled and nosy. As far as we could see, this problem occurs only on 50 MHz.

I learned this is a known problem on the TS690, however

some TS690 users do not seem to have the problem at all! According to the Kenwood TS690S service manual, there is a standard modification to solve the problem, but in my set this had already been done!

Maybe the bias voltage on the 50 MHz driver (M57735 module) is too low. The Yaesu FT690R2 uses this module for its final amplifier and here the bias is about 8.7V, whereas in the Kenwood it is only 7.7V.

Does anyone have any idea how to effectively improve the modulation on 50 MHz SSB? My Kenwood TS690S has a serial number starting with 5. By the way, the receiver is brilliant on 50 MHz!

73, Frank PA3BFM

ATTENTION TS-690S OWNERS October 17 1707Z

As I have mentioned earlier, the TS-690S that I had bought suffered from extremely bad SSB modulation on 50 MHz. I returned the unit to my dealers and we agreed it was unacceptable. Several TS-690S were ordered from the European importer and they all had the identical problem. The European importer (located in Belgium) ran some tests and they noticed something is wrong with the SSB signal on 6 meters.

Kenwood Japan was not very helpful, the only thing they could say was: it must be the bias of the driver module. That's all.

Please note all the TS-690S that were tested had a modified bias circuit already!! This modification does not seem to solve the problem!

I have talked to several amateurs who use a TS-690S without any problems on 6 meters, but to my surprise one of them had a very distorted signal when I heard him the other day!

So it looks like all TS690S's have the problem.

As long as your TS-960S is still under warranty, I suggest you check it out!! If you find the modulation on 50 MHz is bad, return it to your dealer!!

73 Frank, PA3BFM

Dear TS690 owner, October 22 1644Z

As has been reported recently by Frank, PA3BFM, the TS690 suffers from a very bad SSB modulation quality on 50 MHz. I ordered such a radio, but the supplier was kind enough to check it out before I went there to pay and take it home: same problem.

We know, however, that there exist some good TS690s. I checked with PA0RDY, who also owns a TS690 and that one sounds OK. We now suspect that the problem might also occur only in a limited number of radios, maybe series dependent. Can you please drop me a short message whether or not you have the problem together with the series number of the TS690? Frank's radio has serial # 502000115.

Thanks for your help, and if you have the problem, do not hesitate to complain because it will increase the pressure on Kenwood Europe to solve it quickly and thoroughly!

73, Enno PA0ERA @ DK0MWX.DEU.EU

Extended Frequency Range Modification for FT690 RII

by Dr. Costas Fimerlis, SV1DH

1. Originally the Yaesu FT690 RII covers 50 to 54 MHz. You can extend this range so the radio will cover 6 MHz anywhere from 44 to 54 MHz. With this you can also monitor video carrier frequencies (on 49.750, 48.250, or 46.250 MHz)

2. For this modification you need to change the crystal on the 55 MHz VCXO (item X4002) on the PLL/PA unit with a new one, according to the following specifications:

-Frequency: 27.34925 MHz, fundamental cut.
-Load capacitance: 28 pf
-Series resistance: low (15-20 Ohm)
-Holder: HC-18/T/3P, middle pin to case.

3. To modify the display and the PLL divider, first switch off the memory back-up battery (on the rear of FT690 RII) and then install a 1N4148 diode, soldering the cathode to pin 5 of P2501 and the anode to pin 6 of P2502 on the CPU unit.

4. Turning the equipment back on, the VFOs will display 5.000.0 (this is 45.000.0 MHz). The mark "HIGH" will be displayed above 0.000.0 (50.000.0 MHz). Now adjust TC4001 on the VCO unit for the desired range. Next adjust T3018 and T3021 on the transmit path as well T3001 to T3005 on the receive path for optimum flatness and sensitivity over the chosen frequency range.

5. In case that the range 48 to 54 MHz is required, there is no need for the above VCO and RF circuit adjustments. Please note that the useful bandwidth is suppressed approaching the lower 44 MHz limit.

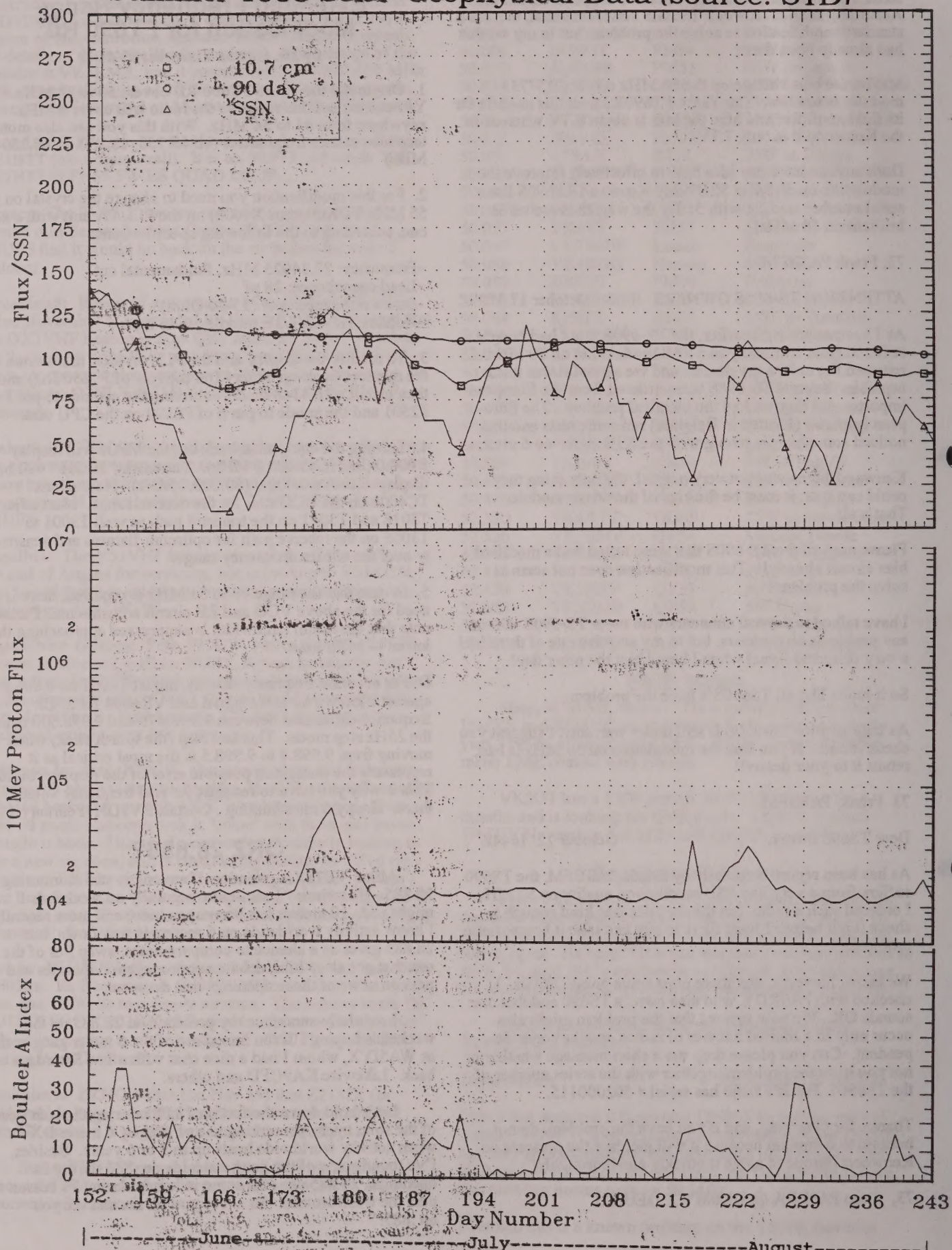
6. For accurate frequency display, adjust T4001 on 0.000.0 against a known 50 MHz signal and VR4004 for 25Hz frequency difference between 9.998.475 and 9.998.500 using the 25Hz step mode. This last step (the fourth click) when moving from 9.998.4 to 9.998.5 is the most critical as it represents the maximum possible error of the display reading. This is why you have to readjust for real frequency values there. Happy 6 mtrs hunting . Costas, SV1DH February 1990

QRZ 28.885?

Mike, VE7SKA, wonders if anyone is still monitoring 28.885. He writes: "I am--quite regularly on weekends I might add. 10 meters has been open more and more recently. I know activity worldwide on 6 meters is way down, but 28.885 gives us a chance to compare notes, swap lies of the one that got away hihi, debate pet propagation theories and pass on news of those openings that do occur.

I regularly announce my presence on 28.885 on the weekends hoping I'll run into some of the 6 meter gang such as WA5IYX, whom I had a nice chat with a few Saturdays back. Likewise KA9CFD and others.

Let's hold down the fort on 28.885 during the lean years of the solar cycle, preserving use of .885 by 6 meter DXers when activity worldwide heats up in 5 or 6 years. Besides, I've found some of the gang stateside on .885 during Es openings. 28.885 can still come in handy during Es season to pass the word around! So ... see you on six and see you on .885!"


Summer 1993 Solar-Geophysical Data (source: STD)
10.7 cm
90 day
SSN
Flux/SSN
10 Mev Proton Flux
Boulder A Index
Day Number
June
July
August

Addendum to November 1993 50 MHz DX Bulletin

I forgot some things in the hurry to get the bulletin to bed yesterday morning, like the DX-pedition news. You already know about KM1E/C6AGN who will be at Green Turtle Cay, Abaco Is. til February 23. Jimmy, W6JKV, is going to the American Virgin Islands from December 28 to January 5. Look for KP2/W6JKV on both 50 MHz and 144 MHz and EME.

Under EME news, I have more information about VK3OT from SM7AED's newssheet. His high power permit lasts until May 1, 1994, and for the hours 1300-1900 UTC. He is looking for EME skeds during these times. If you are interested, please plot your EME path to both the two sites listed below and advise him of common windows. He can work up to 15° elevation elevation with a Yagi array. Frequency is 50.0535 MHz. Locations for two sites are: VK3OT, QF12ag, Hamilton, Australia 37°43.08' S 142°01.06' E. VK3SIX, QF02, 37°40'32" S 141°50'52" E. Beacons 50.0535 and 28.253.

K6QXY reports ZL TV video in: November 20 2300-2400 45.24, 45.25, 45.26 S1-5
November 21 2300, 45.24, 45.25 MHz, XE2UZL/B 2317-2330.

STD reports of fof2 suggest that some 50 MHz F2 should still be possible in the tropical Pacific area. If you are working TEP, F2, Es, or AU on 50 MHz, please write or send e-mail to your editor.

TNX, Vic, K6FV

THE 50 MHZ DX BULLETIN

12450 Skyline Blvd.
Woodside, CA 94062-4541

DECEMBER 9 93

Greetings from the editor/publisher/subscription manager of The 50 MHz DX Bulletin. Our records indicate that either your subscription expired during late 1992 or that you have not subscribed yet. I hope that you have found our newsletter to be an informative and pleasurable. Unlike most publications, we do not start sending out renewal notices months in advance. In fact, we are about a year behind. This probably your second renewal notice, for most of you, for issues already received during 1993. The rate stated below will advance your subscription one year from the date shown on your mailing label. **We have not received your renewal check yet.** Please check to see if you have already paid. If you have not, please do so now.

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